4-Port H.264 Analog Video Encoder with Audio Support

Avigilon's end-to-end surveillance solutions deliver image detail no other system can match. Avigilon Control Center software, featuring High-Definition Stream Management™ (HDSM™) technology combined with our broad range of megapixel cameras (from 1 MP to 29 MP) provide unprecedented clarity—while effectively managing storage and bandwidth requirements. Our components are scalable and can work together in an end-to-end system, or can be customized to create your own powerful and cost-effective solution.

The innovative H.264 analog video encoder is just one way Avigilon can help provide the very best monitoring and protection.

Avigilon analog video encoders minimize bandwidth and storage requirements while capturing high-quality surveillance footage (in full resolution of up to 30 images per second per analog camera) for greater coverage and enhanced overall protection.

Using standard network equipment, the analog video encoder seamlessly integrates with Avigilon Control Center and NVRs to create a network-based surveillance solution with unmatched performance, ease of use, and ease of installation. Plus they also feature 3D motion-adaptive de-interlacing for shaper, more accurate video.

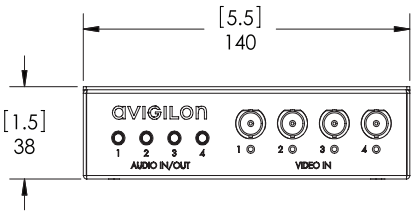
KEY FEATURES

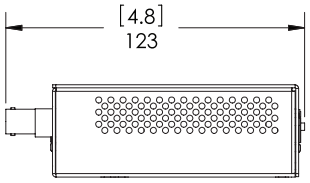
- 4 video channels
- Max resolution 720 x 480 (NTSC) or 720 x 576 (PAL)
- 30 images per second from each port
- H.264 and Motion JPEG compression
- ONVIF compliant API
- Motion adaptive 3D deinterlacing
- Support for PTZ and dome cameras via RS-485 interface
- Up to 4 privacy zones available per channel
- 4 audio input channels
- 4 audio output channels
- External I/O terminals
- Power over Ethernet, 24 VAC or 12 VDC power input
- Automatically connects to Avigilon Control Center NVMS
- Rack mount kit allows 3 encoders in 1U of rack space

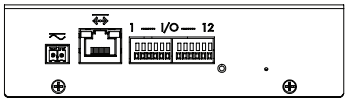
Specifications

ENCODER	Video Channels	4
	Video Standard	NTSC; PAL
	Video Format	Composite Video 1.0 Vpp with 75 Ohm selectable termination
	Video Input	BNC connection
	Max Resolution (per channel)	720 (H) x 480 (V) NTSC; 720 (H) x 576 (V) PAL
	Image Rate (per channel)	30 NTSC at max. resolution; 25 PAL
	Image Compression Method	H.264 (MPEG-4 Part 10/AVC); Motion JPEG
	Motion Detection	Selectable sensitivity and threshold
	Privacy Zones (per channel)	Up to 4 zones
	Audio Input Channels	4
	Audio Output Channels	4
	Audio Compression Method	G.711 PCM 8kHz
	Audio Input/Output	Line input/output, I/O mini-jack (3.5 mm)
	PTZ Control	RS-485 interface
	PTZ Protocols	American Dynamics Sensormatic, AXSYS, AXSYS DCU, Ernitec ERNA, Honeywell Diamond, Kalatel ASCII, Pelco D, Pelco P, TEB Ligne, Vicon extended, Vicon normal, Videotec Legacy, Videotec MACRO
	External I/O Terminals	4 Alarm In, 4 Alarm Out
NETWORK	Network	100BASE-TX
	Cabling Type	CAT5
	Connector	RJ-45
	API	ONVIF compliant (www.onvif.org)
	Security	Password protection, HTTPS encryption, digest authentication, WS authentication, user access log.
	Protocol	IPv4, HTTP, HTTPS, SOAP, DNS, NTP, RTSP, RTCP, RTP, TCP,UDP, IGMP, ICMP, DHCP, Zeroconf, ARP
	Streaming Protocols	RTP/UDP, RTP/UDP multicast, RTP/RTSP/TCP, RTP/RTSP/HTTP/TCP, RTP/RTSP/HTTPS/TCP, HTTP
MECHANICAL	Dimensions (LxWxH)	140 mm x 123 mm x 38 mm (5.5” x 4.8” x 1.5”)
	Weight	0.62 kg (1.4 lbs)
ELECTRICAL	Power Source	VDC: 12 V VAC: 24 V PoE: IEEE802.3af Class 3 compliant
	Power Consumption	8 W
	Power Connector	2-pin terminal block
ENVIRONMENTAL	Operating Temperature	12 VDC: -10°C to 48°C (14°F to 118°F); 24 VAC or POE: -10°C to 50°C (14°F to 122°F)
	Storage Temperature	-10 °C to 70 °C (14 °F to 158 °F)
	Humidity	20 - 80% Relative humidity (non-condensing)
CERTIFICATIONS	Safety	UL 60950 CSA 60950 EN 60950-1 CE ROHS WEEE
	Electromagnetic Emissions	FCC Part 15 Subpart B Class A IC ICES-003 Class A EN 55022 Class A
	Electromagnetic Immunity	EN 55024 Class A EN 61000-4-2 EN 61000-4-3 EN 61000-4-4 EN 61000-4-5 EN 61000-4-6 EN 61000-4-11
ORDERING INFORMATION	ENC-4P-H264	4-Port H.264 Video Encoder with 4 Audio Inputs and 4 Audio Outputs
	ENC-BRK1U	1U EIA (19”) Rack Mountable Bracket for 3 ENC-4P-H264

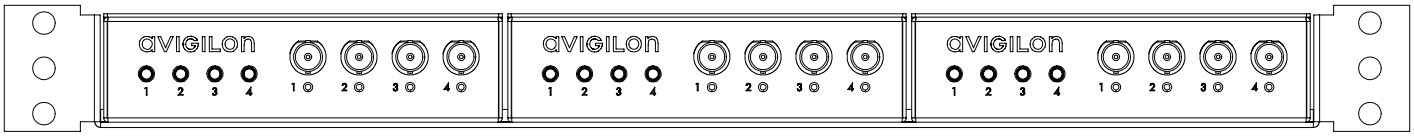
Outline Dimensions







[X.X]	INCHES
X	MM

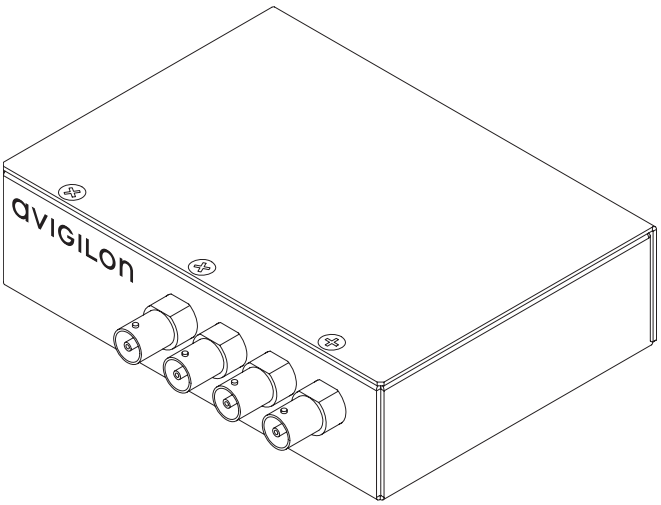


ENC-BRK1U

Specifications subject to change without notice. ©2012 Avigilon Corporation. All rights reserved. Trademarks and registered trademarks are the property of their respective owners.

AVIGILON
THE BEST EVIDENCE™

4-Port
Analog Video Encoder



Description

The Avigilon 4-port analog video encoder is designed to integrate legacy analog cameras into a High Definition IP surveillance system. It transmits images over 100BASE-TX using advanced JPEG2000 progressive compression technology.

The encoder supports NTSC and PAL video standards and Composite, Component, and S-Video formats. The encoder includes an RS-485 interface for PTZ support and an external I/O interface for connecting alarms and relays.

The encoder seamlessly integrates with Avigilon Control Center NVMS and High Definition NVRs using standard network equipment creating a network based surveillance solution with unmatched performance, ease of use, and ease of installation. Encoder power is provided by either Power over Ethernet, 12 VDC, or 24 VAC.

Features

- 4 Video Channels
- Max resolution 720 x 480 (NTSC) or 720 x 576 (PAL)
- 30 images per second from each port for a total of 120 images per second from all 4 ports
- Lossless JPEG2000 compression
- Power over Ethernet, 24 VAC or 12 VDC power input
- External I/O and RS-485 interface
- Automatically obtains IP address and connects to Avigilon Control Center NVMS
- Rackmount kit allows 3 encoders in 1U of rackspace
- Support for PTZ and dome cameras

*1U rack mountable bracket is sold separately

Specifications

Encoder

Video Channels	4
Video Standard	NTSC PAL
Video Format	Composite Video S-Video (uses 2 channels) Component Video (uses 3 channels)
Video Input	BNC 1.0 Vpp with 75 Ohm selectable termination
Max Resolution (per channel)	720 (H) x 480 (V) NTSC 720 (H) x 576 (V) PAL
Image Compression Method	JPEG2000
Image Rate (per channel)	30 NTSC 25 PAL
Motion Detection	Selectable sensitivity and threshold
External I/O Terminals	4 Alarm In, 4 Alarm Out, RS-485

Network

Network	100BASE-TX
Cabling Type	CAT5
Connector	RJ-45
Security	SSL
Protocol	UDP, TCP, SOAP, DHCP, Zeroconf

Mechanical

Dimensions (LxWxH)	140 mm x 122 mm x 44 mm 5.5" x 4.8" x 1.7"
Weight	0.62 kg (1.4 lbs)

Electrical

Power Source	VDC: 12-24 V VAC: 24 V PoE: IEEE802.3af Class 3 compliant
Power Consumption	8 W
Power Connector	2-pin terminal block

Environmental

Operating Temperature	-10 °C to +50 °C (14 °F to 122 °F)
Storage Temperature	-10 °C to +70 °C (14 °F to 158 °F)
Humidity	20 - 80% Relative humidity (non-condensing)

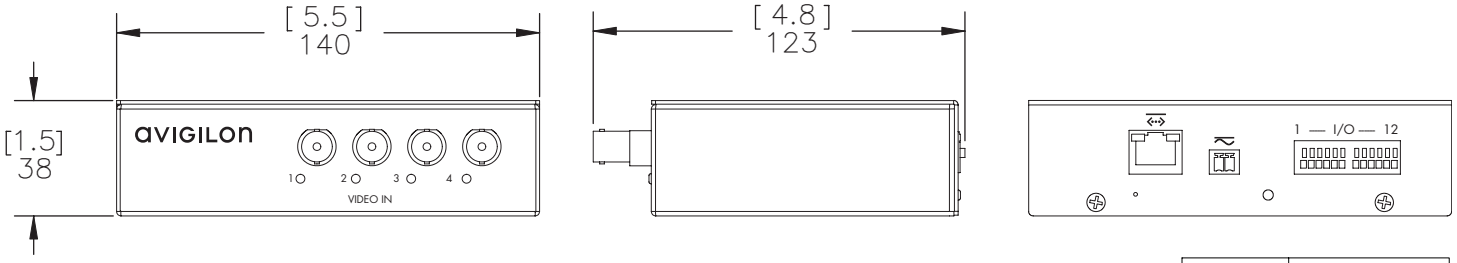
Certifications

	CE, Class A FCC, Class A UL/cUL Listed

Ordering Information

ENC-4PORT	4-Port Analog Video Encoder
ENC-BRK1U	1U EIA (19") Rack Mountable Bracket For 3 ENC-4PORTs

Outline Dimensions

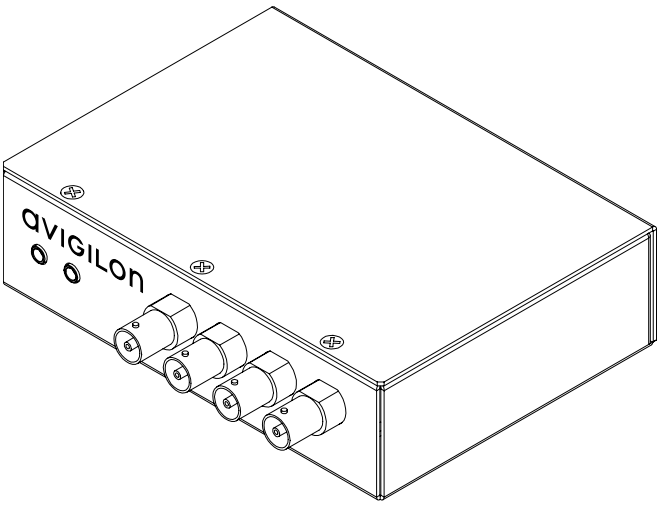


X	MM
[X.X]	INCHES

Specifications subject to change without notice. V1.3
©2009 Avigilon Corporation. All rights reserved.
Trademarks and registered trademarks are the property of their respective owners.

AVIGILON
THE BEST EVIDENCE™

4-Port Analog Video Encoder with 2 Audio Inputs



Description

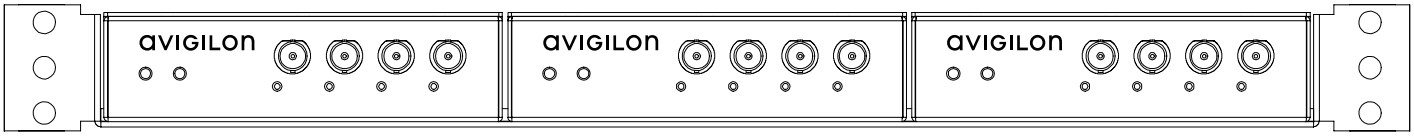
The Avigilon 4-port analog video encoder with 2 audio inputs is designed to integrate legacy analog cameras into a High Definition IP surveillance system. It transmits images over 100BASE-TX using advanced JPEG2000 progressive compression technology.

The encoder supports NTSC and PAL video standards and Composite, Component, and S-Video formats. The encoder includes an RS-485 interface for PTZ support and an external I/O interface for connecting alarms and relays.

The encoder seamlessly integrates with Avigilon Control Center NVMS and High Definition NVRs using standard network equipment creating a network based surveillance solution with unmatched performance, ease of use, and ease of installation. Encoder power is provided by either Power over Ethernet, 12 VDC, or 24 VAC.

Features

- 4 Video Channels
- Max resolution 720 x 480 (NTSC) or 720 x 576 (PAL)
- 30 images per second from each port for a total of 120 images per second from all 4 ports
- 2 Audio Channels
- Lossless JPEG2000 compression
- Power over Ethernet, 24 VAC or 12 VDC power input
- External I/O and RS-485 interface
- Automatically obtains IP address and connects to Avigilon Control Center NVMS
- Rackmount kit allows 3 encoders in 1U of rackspace



*1U rack mountable bracket is sold separately

Specifications

Encoder

Video Channels	4
Video Standard	NTSC PAL
Video Format	Composite Video S-Video (uses 2 channels) Component Video (uses 3 channels)
Video Input	BNC 1.0 Vpp with 75 Ohm selectable termination
Max Resolution (per channel)	720 (H) x 480 (V) NTSC 720 (H) x 576 (V) PAL
Image Compression Method	JPEG2000
Image Rate (per channel)	30 NTSC 25 PAL
Motion Detection	Selectable sensitivity and threshold
Audio Channels	2
Audio Compression Method	G.711 PCM 8 kHz
Audio Input	External 3.5 mm microphone input
External I/O Terminals	4 Alarm In, 4 Alarm Out, RS-485

Network

Network	100BASE-TX
Cabling Type	CAT5
Connector	RJ-45
Security	SSL
Protocol	UDP, TCP, SOAP, DHCP, Zeroconf

Mechanical

Dimensions (LxWxH)	140 mm x 122 mm x 44 mm 5.5” x 4.8” x 1.7”
Weight	0.62 kg (1.4 lbs)

Electrical

Power Source	VDC: 12-24 V VAC: 24 V PoE: IEEE802.3af Class 3 compliant
Power Consumption	8 W
Power Connector	2-pin terminal block

Environmental

Operating Temperature	-10 °C to +50 °C (14 °F to 122 °F)
Storage Temperature	-10 °C to +70 °C (14 °F to 158 °F)
Humidity	20 - 80% Relative humidity (non-condensing)

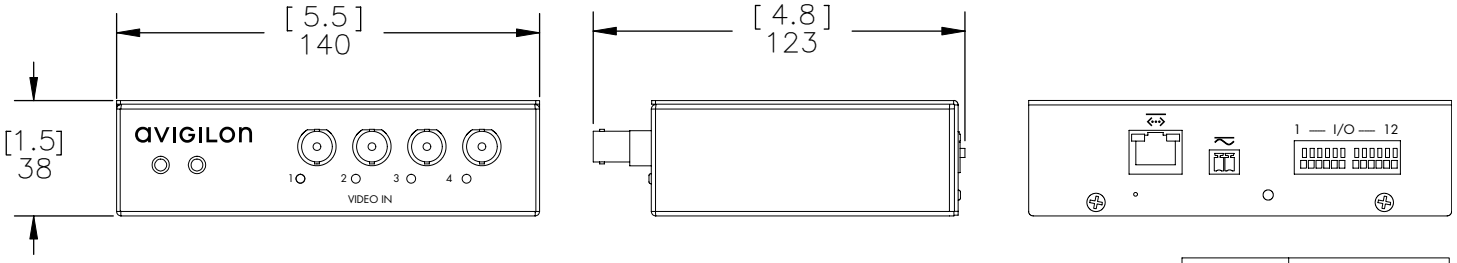
Certifications

	CE, Class A FCC, Class A UL/cUL Listed

Ordering Information

ENC-4PORT-2AI	4-Port Analog Video Encoder with 2 Audio Inputs
ENC-BRK1U	1U EIA (19”) Rack Mountable Bracket For 3 ENC-4PORTs

Outline Dimensions



X	MM
[X.X]	INCHES

Specifications subject to change without notice. V1.0
©2009 Avigilon Corporation. All rights reserved.
Trademarks and registered trademarks are the property of their respective owners.